

- Claim 1. A self orienting selectable locating collet comprising:
a collet having at least one deflectable finger;
an orientation key positioned at said deflectable finger;
a collet profile disposed at an outside dimension of said collet.
- Claim 2. A self orienting selectable locating collet as claimed in Claim 1 wherein said key includes surfaces configured to engage an orientation profile and orient said collet and to pass through said orientation profile after orienting.
- Claim 3. A self orienting selectable locating collet as claimed in Claim 1 wherein said collet profile is selective to a specific orientation matchable profile.
- Claim 4. A self orienting selectable locating collet as claimed in Claim 1 wherein said collet profile includes a reverse cut enabling said collet profile to carry a load.
- Claim 5. A self orienting selectable locating collet as claimed in Claim 4 wherein said reverse cut is configured to carry a load in the downhole direction.
- Claim 6. A self orienting selectable locating collet as claimed in Claim 4 wherein said reverse cut is at an angle of about 80 degrees to an axis of said collet.
- Claim 7. A self orienting selectable locating collet as claimed in Claim 1 wherein said collet further includes a snap-out surface.
- Claim 8. A self orienting selectable locating collet as claimed in Claim 7 wherein said snap-out surface is inclined to facilitate the snap-out of the collet from a separate matchable profile.
- Claim 9. A self orienting selectable locating collet as claimed in Claim 7 wherein the snap-out surface is inclined at about 60°.

Claim 10. A system for downhole orientation and selective location of a collet comprising:

- an orientation profile installable in a downhole environment;
- a matchable profile in said orientation profile;
- a collet having at least one deflectable finger and orientation key positioned at said deflectable finger; and
- a collet profile disposed at an outside dimension of said collet, said profile being selectively matchable to said matchable profile.

Claim 11. A system for downhole orientation and selective location of a collet as claimed in Claim 10 wherein said orientation profile includes an opening at a desired orientation to receive said key.

Claim 12. A system for downhole orientation and selective location of a collet as claimed in Claim 11 wherein said opening is a slot.

Claim 13. A system for downhole orientation and selective location of a collet as claimed in Claim 12 wherein said slot includes an angled edge to deflect said key for continued downhole movement of said collet.

Claim 14. A system for downhole orientation and selective location of a collet as claimed in Claim 13 wherein said angled edge is at an angle of about 15 degrees.

Claim 15. A system for downhole orientation and selective location of a collet as claimed in Claim 10 wherein said matchable profile and said collet profile only engage if they are complementary.

Claim 16. A system for downhole orientation and selective location of a collet as claimed in Claim 10 wherein said orientation profile is an angled land surface upon which said key lands and causes rotation of said collet.

Claim 17. A system for downhole orientation and selective location of a collet as claimed in Claim 16 wherein said angled land surface is helical.

Claim 18. A system for downhole orientation and selective location of a collet as claimed in Claim 10 wherein said orientation profile is mounted at a lateral liner.

Claim 19. A system for downhole orientation and selective location of a collet as claimed in Claim 10 wherein said orientation profile is mounted at a lateral liner hanger.

Claim 20. A wellbore configured for self orienting and selective locating of collets comprising:

- a liner having at least two orientation profiles therein, each having a distinct matchable profile and defining through bores having the same internal dimension; and
- a collet runnable in said liner having a collet profile complementary to one of said at least two orientation profiles.

Claim 21. A wellbore configured for self orienting and selective locating of collets as claimed in Claim 20 wherein said orientation matchable profiles are configured to cause said collet profile to pass on if it is not a complementary profile.

Claim 22. A method for promoting self orientation and selective location of collets in a wellbore comprising:

- installing in a liner, at least two orientation profiles having selective matchable profiles;

- running a collet having a deflectable orientation key and a collet profile thereon complementary to one of said at least two orientation profile matchable profiles; and

- orienting said collet by driving said key against said orientation profile and engaging said matchable profile where complementary to said collet profile.

Claim 23. A method for promoting selective self orientation and location of collets in a wellbore as claimed in Claim 22 further comprising said collet profile and collet passing through said orientation profile and matchable profile when not complementary.

Claim 24. A method for promoting selective self orientation and location of collets in a wellbore as claimed in Claim 23 wherein said method further includes deflecting said orientation key when said matchable profile is not complementary.

Claim 25. A wellbore configured for self orienting and selective locating of collets comprising:

- a tubing having at least two orientation profiles therein, each having a distinct matchable profile and defining through bores having the same internal dimension; and

- a collet runnable in said tubing having a collet profile complementary to one of said at least two orientation profiles.

Claim 26. A method for promoting self orientation and selective location of collets in a wellbore comprising:

- installing in a tubing, at least two orientation profiles having selective matchable profiles;

- running a collet having a deflectable orientation key and a collet profile thereon complementary to one of said at least two orientation profile matchable profiles; and

- orienting said collet by driving said key against said orientation profile and engaging said matchable profile where complementary to said collet profile.